**Flower and Stem Review**

**Directions:** Answer the following questions on a separate sheet of paper.

1. Describe how fertilization takes place in a flower.
2. How are the following categories of flowers different: incomplete, complete, perfect, imperfect.
3. Is it possible for an incomplete flower to be a perfect flower? Why or why not?
4. Why are flowers important to plants?
5. Why are stems important to plants?
6. How is a terminal bud different from a lateral bud?
7. What can the distance between the bud scale scar and the terminal bud tell you?
8. Why is it important for a plant to have xylem, phloem, and cambium tissue?
9. How is a monocot plant different than a dicot plant?
10. On the additional sheet of paper, you will find outlined pictures of a plant flower and a plant stem. You need to color code these pictures. Each color you choose should represent a part of the flower or stem. For example, if you pick purple for the color of the petal, you should color the petals purple and write the label for the petals in purple. Nothing else on the flower should then be purple. If you have to reuse the purple for the stem, you may. Once you have color coded your pictures, also complete the following:
    1. Put a square around all the female parts of the flower.
    2. Put a triangle around all the male parts of the flower.
    3. Label the monocot and dicot cross-sections of the stem.
    4. What type of flower is pictured? Be sure to use all classifications!

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